

Newly patented Crysta molecule powers ACTIVA Presto, Pulpdent's latest bioactive restorative

Chemical technology allows for first-ever universal light-cure bioactive restorative with smile zone esthetics, also facilitates intimate hydroxyapatite bond between tooth and composite

WATERTOWN, Mass. – January 10, 2022 –Pulpdent, a leading dental researcher and manufacturer, is pleased to announce that its newly patented Crysta MCP technology is available immediately in ACTIVA Presto, the company's new universal light-cure bioactive restorative. Crysta allows ACTIVA Presto to actively promote the health of restored teeth while also meeting the highest esthetic standards of restorative dentistry—a first for dental material science.

“ACTIVA Presto and Crysta have the potential to impact millions of patients worldwide by significantly improving the outcomes of dental restorative procedures while also meeting today's esthetic demands,” says Pulpdent Executive Manager Lew Berk. “We are thrilled to introduce this technology and shatter the ceiling for what's possible in dental restorative materials.”

Crysta is the trade name for methacrylate-functionalized calcium phosphate (MCP), a bioactive molecule developed over the course of six years by the Pulpdent research team. When placed in a dental composite, Crysta facilitates a hydroxyapatite bridge between tooth and composite. It also enables top-tier esthetics, which lets dentists use bioactive composites in the smile zone without compromise.

“We realized that active dental materials were the future and began investing heavily in bioactive dental research more than 20 years ago,” says Pulpdent President Fred Berk. “It has taken many breakthroughs to achieve a light-cure material with bioactive properties that works exactly the way dentists expect. A great many hurdles have been unequivocally overcome with the advent of Crysta and ACTIVA Presto, which solve the challenges that have impeded bioactive restorative materials from universal use in the marketplace to this point.”

Crysta, which facilitates tooth remineralization through the transfer and precipitation of calcium, fluoride, and phosphate, is the second major breakthrough by the Pulpdent research team in the realm of bio-interactive dental material research. The first breakthrough came in 2013 with the release of dual-cure ACTIVA BioACTIVE-RESTORATIVE, the first durable, esthetic, bioactive restorative suitable for both dentin and enamel replacement.

While ACTIVA BioACTIVE-RESTORATIVE continues to be widely used in posterior restorations, Crysta-containing ACTIVA Presto has multiple shades and can be freely used in the anterior and posterior. Moreover, both ACTIVA BioACTIVE-RESTORATIVE and ACTIVA Presto can be used together, giving dentists powerful new ways to restore teeth and protect patients against secondary caries.

By definition, bioactive dental materials stimulate the natural remineralization process that helps protect teeth against caries. Bioactive restoratives also actively promote a bonded layer of apatite between the tooth and restoration. Pulpdent's bioactive dental materials are acknowledged by the US Food and Drug Administration as meeting requirements to be termed “bioactive.”

ACTIVA Presto is the first bioactive, light-cure, universal restorative. It has unique stackable handling, making it a restorative material without a peer. ACTIVA Presto also benefits from Pulpdent's proprietary rubberized resin and moisture-friendly technology, which ensure durability and worry-free placement.

For more information on Crysta, visit <https://pulpdent.com/crysta>. For more information on ACTIVA Presto, visit <https://pulpdent.com/pulpdent-products/activa-presto>.

About Pulpdent—Pulpdent is a global dental research and manufacturing company established in 1947 and headquartered in Watertown, Massachusetts. Its first product, Pulpdent Paste, is still used universally today in vital pulp and root canal therapy. Pulpdent is a family-owned company with a proven legacy of investment in original dental research and new technologies, while also being a sought-after private label manufacturer. Pulpdent has achieved BPA-free manufacturing in its restorative products, and all products are produced in its Boston-area facilities. The company strives to earn the trust of the dental professionals; inspire clinicians with materials that advance the practice of dentistry; and help patients everywhere smile with confidence. Pulpdent is celebrating its 75th anniversary in 2022 and may be followed using @pulpdent, @pulpdentcorporation, and #pulpdent75.